

Service Manual

Model:DH-300

Caution

:In this Manual, some part can be changed for improving, their performance without notice in the part list. So, if you need the latest parts information, please refer to PPL (Parts Price List) in service information center.

DEHITECH

DH-300

SERVICE MANUAL

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1.Points for Attention

WARNING:

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquid, such as vases, shall be placed on the apparatus.



	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:

To reduce the risk of fire and electrical shock, do not remove the cover of this unit. Please refer all servicing difficulties to qualified technicians.
Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.

Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

CLASS I:

LASER PRODUCT - This marking indicates the presence of laser beams used in this unit, and **CLASS I** refers to laser beams of the weaker class. There is no danger of hazardous radiation outside this unit.



Double insulation
This is class II apparatus

Please disconnect the unit under these conditions:

Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.

Do not use suitable outlet, it might be dangerous.

Check the connection regularly. If any rupture or failure in insulation, call for a maintenance man to replace them.

To ensure reliable operation, and to protect it from overheating, the unit must be put in somewhere well ventilated.

Do not use power-line operated sets near water *for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.

Do not place the unit on an unstable object. The set may fall, causing serious injury to a child or an adult, and serious damage to the unit.

Never let any liquid spattered on the unit. It might cause electric shock or fire hazard.

Never place the unit near or over such objects: for example, radiator, heat register, stove or other heat sources. (including amplifier)

Unplug the unit from the wall outlet before cleaning or polishing it. Do not use liquid cleaners or aerosol cleaners. Use a cloth lightly dampened with water for cleaning the exterior of the unit.

Never place heavy object on the unit.

Important Safety Instructions:

- Read these instructions.
- Keep these instructions.
- Heed all warning.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other, A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Read through this instruction manual before installation and use.
- To disconnect the power cord, hold the plug instead of pulling on the cord.
- Switch off the main power when the unit is not in use. (Disconnect the power plug from the power outlet when you do not intend to use the unit for a prolonged period of time.) Before moving the unit, remove the disc from the unit's tray first.
- Do not open the cover or touch any of the components inside the unit.
- Do not operate or install the unit under direct sunlight or near objects that radiate heat. This may lead to overheating of the unit.
- Do not operate or install the unit in moist or humid conditions. This may affect the pick-up of the unit.
- Install the unit on a flat surface with good air circulation. Please ensure the ventilation holes are not covered otherwise the unit will overheat and malfunction.
- Wipe the panel and case with soft dry cloth only. Do not apply any kind of thinner, alcohol or sprays when cleaning the unit.

Our products will be updated at times. Any difference between unit and manual in that occasion will not be noticed.



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Software Upgrade

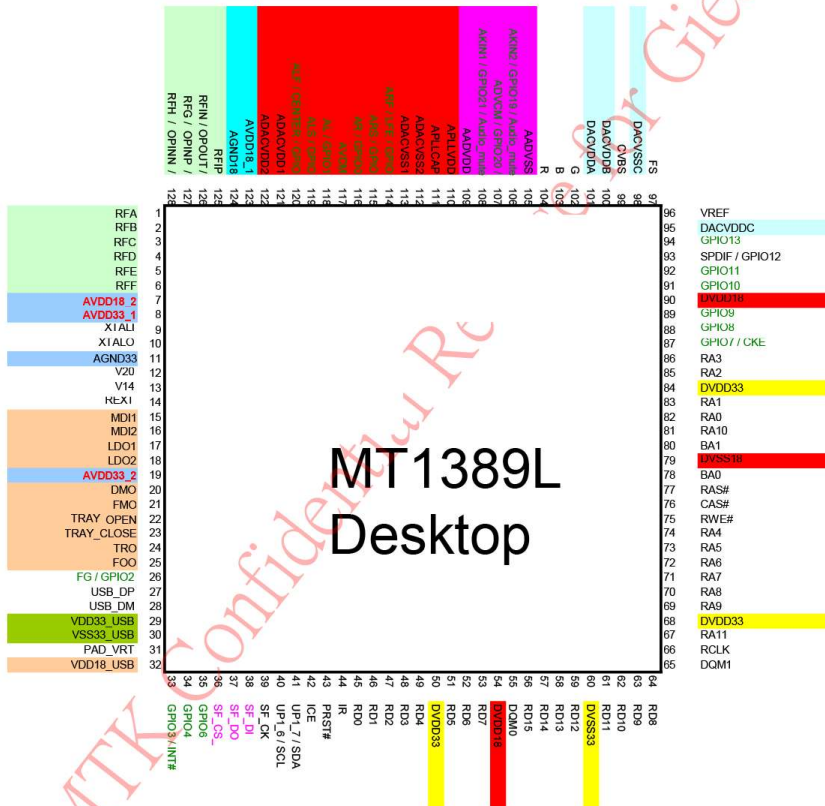
1. Create a software upgrade disc.
2. Put the upgrade disc into the DVD player, and the unit will read it automatically.
3. There will be indication on the screen:
*Upgrade File DETECTED
Upgrade?
Press Play To Start*
4. Press ENTER or PLAY button to confirm upgrading, then on screen it indicates: * File Coping-> Upgrading*.
5. The disc tray will open automatically in a few seconds.
Please take out the disc.
6. The DVD player is Upgrading automatically. please make sure not to shut it off during uploading, or the unit may get hanged.
7. The disc tray will turn back and the unit will restart automatically when the upgrading is finished.

Displaying the Software Version Number

1. Turn the DVD to the mode of OPEN/NO DISC or press STOP button twice.
2. Press SETUP button
3. Input 1389
4. The software Version Number will display on the screen.

2.Circuit Diagram , component layout and exploded view

2.1MPEG IC Block Diagram



Pin Assignment

Table1:Pin Definitions

Pin	Main	Alt.	Type	Description
Analog Interface (66)				
125	RFIP		Analog Input	AC coupled DVD RF signal input RFIP
126	RFIN	OPOUT	Analog Input	AC coupled DVD RF signal input RFIN
127	RFG	OPINP	Analog Input	Main beam, RF AC input path
128	RFH	OPINN	Analog Input	Main beam, RF AC input path
1	RFA		Analog Input	RF main beam input A
2	RFB		Analog Input	RF main beam input B
3	RFC		Analog Input	RF main beam input C
4	RFD		Analog Input	RF main beam input D
5	RFE		Analog Input	RF sub beam input E
6	RFF		Analog Input	RF sub beam input E
7	AVDD18_2		Analog power	Analog 1.8V power
8	AVDD33_1		Analog Power	Analog 3.3V power
9	XTALI		Input	27MHz crystal input
10	XTALO		Output	27MHz crystal output
11	AGND33		Analog Ground	Analog Ground
12	V20		Analog output	Reference voltage 2.0V
13	V14		Analog output	Reference voltage 1.4V
14	REXT		Analog Input	Current reference input. It generates reference current for RF path. Connect an external 15K resistor to this pin and AVSS
15	MDI1		Analog Input	Laser power monitor input

Pin	Main	Alt.	Type	Description
16	MDI2		Analog Input	Laser power monitor input
17	LDO1		Analog Output	Laser driver output
18	LDO2		Analog Output	Laser driver output
19	AVDD33_2		Analog Power	Analog 3.3V power
20	DMO		Analog Output	Disk motor control output. PWM output
21	FMO		Analog Output	Feed motor control. PWM output
22	TRAY_OPEN		Analog Output	Tray PWM output/Tray open output
23	TRAY_CLOSE		Analog Output	Tray PWM output/Tray close output
24	TRO		Analog Output	Tracking servo output. PDM output of tracking servo compensator
25	FOO		Analog Output	Focus servo output. PDM output of focus servo compensator
26	FG	GPIO2	Analog	1) Motor Hall sensor input 2) GPIO
27	USB_DP		Analog Input	USB port DPLUS analog pin
28	USB_DM		Analog Input	USB port DMINUS analog pin
29	VDD33_USB		USB Power	USB Power pin 3.3V
30	VSS33_USB		USB Ground	USB ground pin
31	PAD_VRT		Analog Input	USB generating reference current
32	VDD18_USB		USB Power	USB Power pin 1.8V
95	DACVDDC		Power	3.3V power pin for video DAC circuitry
96	VREF		Analog	Bandgap reference voltage
97	FS		Analog	Full scale adjustment (suggest to use 560 ohm)
98	DACVSSC		Ground	Ground pin for video DAC circuitry
99	CVBS		Analog	Analog composite output
100	DACVDDB		Power	3.3V power pin for video DAC circuitry
101	DACVDDA		Power	3.3V power pin for video DAC circuitry
102	Y/G		Analog	Green, Y, SY, or CVBS
103	B/CB/PB		Analog	Blue, CB/PB, or SC

Pin	Main	Alt.	Type	Description
104	R/CR/PR		Analog	Red, CR/PR, CVBS, or SY
105	AADVSS		Ground	Ground pin for 2ch audio ADC circuitry
106	AKIN2		Analog	1) Audio ADC input 2 2) MS_CLK set B 3) MCDATA 4) Audio Mute 5) HSYN/VSYN output 6) C5 7) GPIO
107	ADVCM		Analog	1) 2ch audio ADC reference voltageC 2) C6 3) GPIO
108	AKIN1		Analog	1) Audio ADC input 1 2) MS_D0 set B 3) Audio Mute 4) HSYN/VSYN output 5) C7 6) GPIO
109	AADVDD		Power	3.3V power pin for 2ch audio ADC circuitry
110	APLLVDD3		Power	3.3V Power pin for audio clock circuitry
111	APLLCAP		Analog In/Out	APLL external capacitance connection
112	ADACVSS2		Ground	Ground pin for audio DAC circuitry
113	ADACVSS1		Ground	Ground pin for audio DAC circuitry
114	ARF/LFE	GPIO	Analog Output	1) Audio DAC sub-woofer channel output 2) While internal audio DAC not used: a. ACLK b. GPIO
115	ARS	GPIO	Analog Output	1) Audio DAC right Surround channel output 2) While internal audio DAC not used: a. ABCK b. GPIO

Pin	Main	Alt.	Type	Description
116	AR	GPIO	Analog Output	1) Audio DAC right channel output 2) While internal audio DAC not used: a. SDATA2 b. GPIO c. RXD2
117	AVCM		Analog	Audio DAC reference voltage
118	AL	GPIO	Analog Output	1) Audio DAC left channel output 2) While internal audio DAC not used: a. SDATA1 b. GPIO c. RXD1
119	ALS	GPIO	Analog Output	1) Audio DAC left Surround channel output 2) While internal audio DAC not used: a. ALRCK b. GPIO
120	ALF/CENTER	GPIO	Analog Output	1) Audio DAC center channel output 2) While internal audio DAC not used: a. ASDATA0 b. GPIO
121	ADACVDD1		Analog Power	3.3V power pin for audio DAC circuitry
122	ADACVDD2		Analog Power	3.3V power pin for audio DAC circuitry
123	AVDD18_1		Analog Power	Analog 1.8V power
124	AGND18		Analog Ground	Analog Ground
General Power/Ground (7)				
54, 90	DVDD18		Power	1.8V power pin for internal digital circuitry
79	DVSS18		Ground	1.8V Ground pin for internal digital circuitry
50, 68, 84	DVDD33		Power	3.3V power pin for internal digital circuitry
60	DVSS		Ground	3.3V Ground pin for internal digital circuitry
Micro Controller , Flash Interface and GPIO(12)				
33	GPIO3	INT#	InOut 8mA, SR PD, SMT	1) General purpose IO 3 2) Microcontroller external interrupt 1
34	GPIO4		InOut 4mA, PD	General purpose IO 4

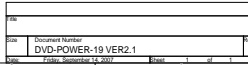
Pin	Main	Alt.	Type	Description
35	GPIO6		InOut 4mA, PD	General purpose IO 6
36	SF_CS_		InOut 8mA, SR PU, SMT	Serial Flash Chip Select
37	SF_DO		InOut 8mA, SR PD, SMT	Serial Flash Dout
38	SF_DI		InOut 8mA, SR PU, SMT	Serial Flash Din
39	SF_CK		InOut 8mA, SR PD, SMT	Serial Flash Clock
40	UP1_6	SCL	InOut 4mA, SR PU, SMT	1) Microcontroller port 1-6 2) I ² C clock pin
41	UP1_7	SDA	InOut 4mA, SR PU, SMT	1) Microcontroller port 1-7 2) I ² C data pin
42	ICE		Input PD, SMT	Microcontroller ICE mode enable
43	PRST#		Input PU, SMT	Power on reset input, active low
44	IR		Input SMT	IR control signal input
Dram Interface (37) (Sorted by position)				
45	RD0		InOut, 4mA	DRAM data 0

Pin	Main	Alt.	Type	Description
46	RD1		InOut 4mA	DRAM data 1
47	RD2		InOut 4mA	DRAM data 2
48	RD3		InOut 4mA	DRAM data 3
49	RD4		InOut 4mA	DRAM data 4
51	RD5		InOut 4mA	DRAM data 5
52	RD6		InOut 4mA	DRAM data 6
53	RD7		InOut 4mA	DRAM data 7
55	DQM0		InOut 4mA, PD	Data mask 0
56	RD15		InOut 4mA	DRAM data 15
57	RD14		InOut 4mA	DRAM data 14
58	RD13		InOut 4mA	DRAM data 13
59	RD12		InOut 4mA	DRAM data 12
61	RD11		InOut 4mA	DRAM data 11
62	RD10		InOut 4mA	DRAM data 10
63	RD9		InOut 4mA	DRAM data 9
64	RD8		InOut 4mA	DRAM data 8

Pin	Main	Alt.	Type	Description
65	DQM1		InOut 4mA, PD	Data mask 1
66	RCLK		InOut 4mA, PD	Dram clock
67	RA11		InOut 4mA, PD	DRAM address bit 11
69	RA9		InOut 4mA, PD	DRAM address 9
70	RA8		InOut 4mA, PD	DRAM address 8
71	RA7		InOut 4mA, PD	DRAM address 7
72	RA6		InOut 4mA, PD	DRAM address 6
73	RA5		InOut 4mA, PD	DRAM address 5
74	RA4		InOut 4mA, PD	DRAM address 4
75	RWE ⁰		Output 4mA, PD	DRAM Write enable, active low
76	CAS ⁰		Output 4mA, PD	DRAM column address strobe, active low
77	RAS ⁰		Output 4mA, PD	DRAM row address strobe, active low
78	BA0		InOut 4mA, PD	DRAM bank address 0
80	BA1		InOut 4mA, PD	DRAM bank address 1
81	RA10		InOut 4mA, PD	DRAM address 10

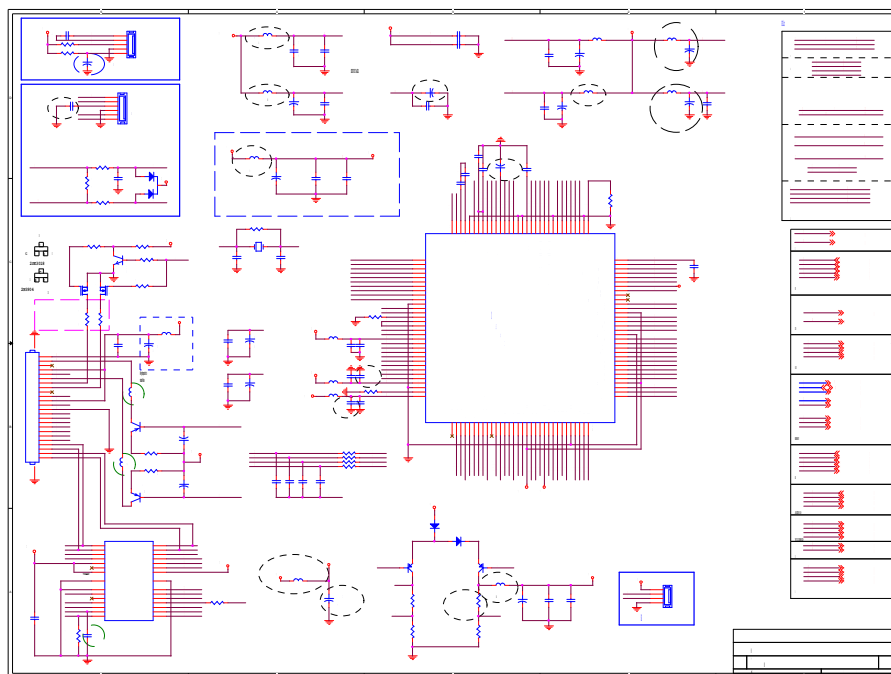
Pin	Main	Alt.	Type	Description
82	RA0		InOut 4mA, PD	DRAM address 0
83	RA1		InOut 4mA, PD	DRAM address 1
85	RA2		InOut 4mA, PD	DRAM address 2
86	RA3		InOut 4mA, PD	DRAM address 3
87	GPIO7	CKE	InOut 4mA, PD	1) GPIO 7 2) Dram Clock Enable 3) MS_CLK set A 4) Audio Mute 5) HSYN/VSYN input 6) C0
GPIO (6)				
88	GPIO8		InOut 4mA, PD	1) GPIO8 2) MS_BS set A 3) SD_CLK set A 4) ASDATA2 5) ACLK 6) Audio Mute 7) HSYN/VSYN input 8) C1
89	GPIO9		InOut 4mA, PU	1) GPIO9 2) MS_D0 set A 3) SD_CMD set A 4) ASDATA1 5) ABCK 6) C2 7) RXD1

2.2 Power board Circuit Diagram and component layout

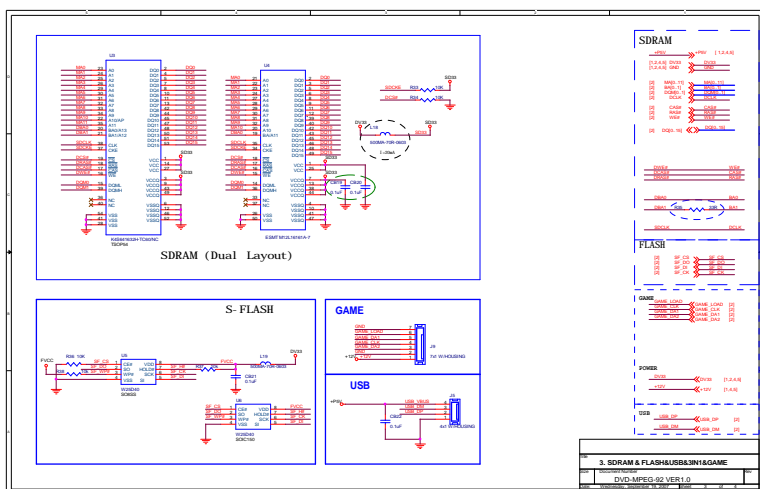


Power Board Circuit Diagram

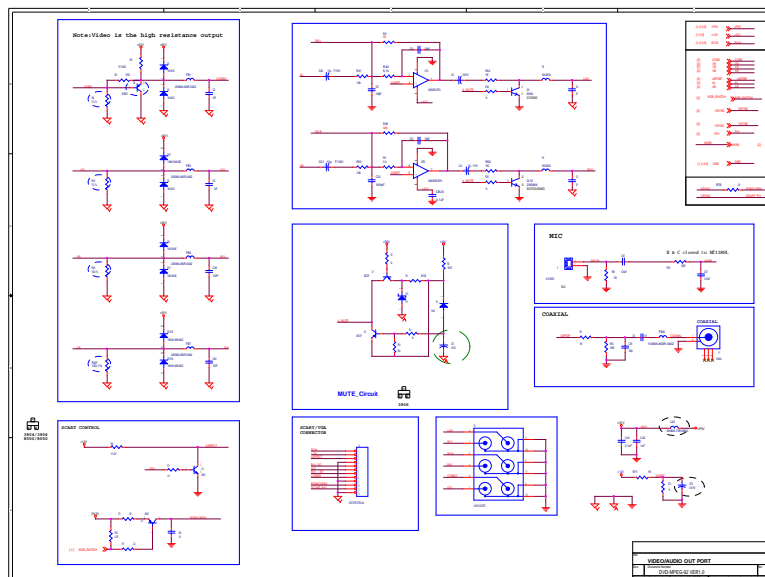
2.3 MPEG board Circuit Diagram



RF&MPEG

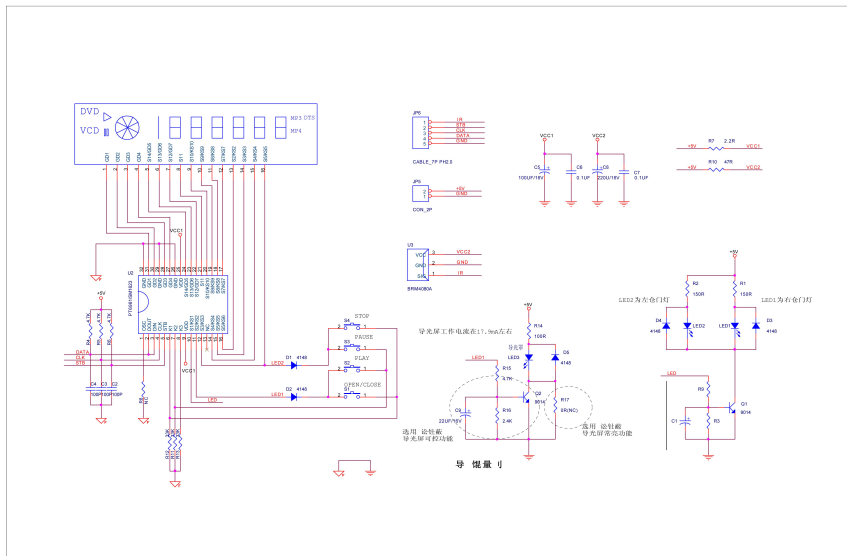


SDRAM&FLASH

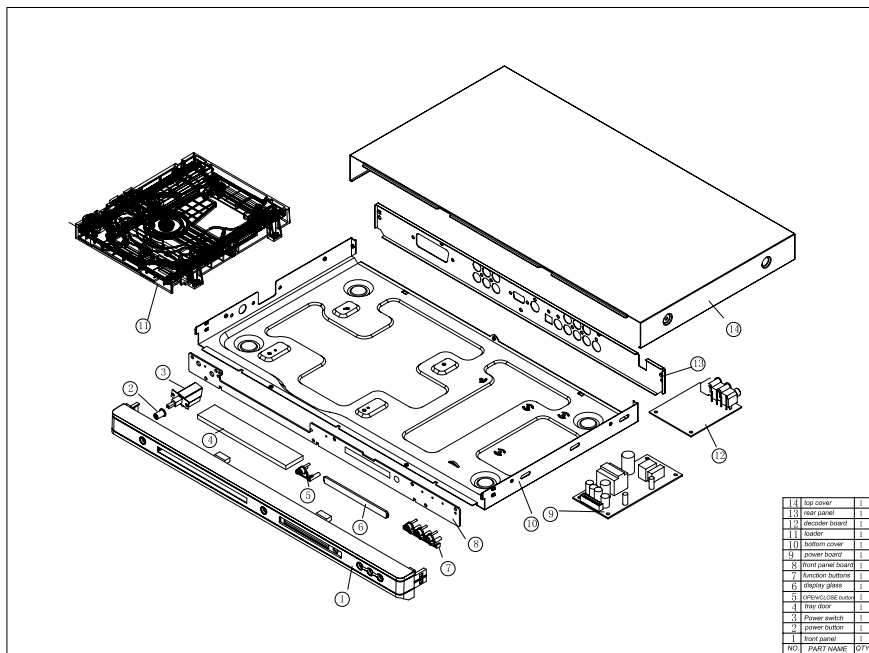


VIDEO/AUDIO OUT PORT

2.4 Front Panel Circuit Diagram



2.5 Exploded View



NO.	PART NAME	QTY
1	Top cover	1
2	Rear panel	1
3	Disc cover	1
4	Front panel	1
5	Power board	1
6	Front panel board	1
7	Function buttons	1
8	Display glass	1
9	Control panel	1
10	Front panel	1
11	Power switch	1
12	Power button	1
13	Front panel	1

Symptom	Reason(s)	Solution(s)
No power	Do not connect power cord to the wall outlet	Connect them well
No picture	Do not set up TV in correct setting	Set up TV in correct mode
	Do not connect video cable securely	Connect them well
No sound	Do not connect audio cable securely	Connect them well
	Do not power the audio connection system on	Power it on
	The audio output setting is not correct.	Set it in correct mode
Distorted picture	Disc is dirty.	Clean the disc or try another one.
	In fastforward or fastbackward mode	Sometimes, the tiny distortion appears, its normal condition.
Luminance unsteady or picture with noise	Circuitry influence	Connect DVD video player to TV directly
Unable to play	Do not load disc in	Place disc in
	The disc loaded in can not play	Place readable disc in(check the disc type)
	The disc is loaded upside down	Replace the disc with the label side up
	Do not load disc in guide slot	Load the disc correctly
	Disc dirty	Clean the disc
	TV screen has menu	Press Setup turning off the menu.
	Parental lock function	Unlock it or change the rating
Key no function	Power wave or other abnormal phenomeno (such as static) disturbs the normal condition.	Switch on/off power or unplug/replug the power cord.
Remote control does not work	Do not point remote control at the remote sensor directly.	Point remote control at the remote sensor directly.
	Remote control is too far from DVD unit.	Operate remote control within 7 meters
	Batteries are exhausted.	Replace the batteries and insert in correct polarities.

4. Parts List

4.1 Power board Parts List

NO.	PART NO.	PART NAME	DESCRIPTION	QTY	LOCATION
1	BDRT416808JX	carbono resistor	RT14-1/4W-6.8R-J	1	R11
2	BDRT411009JX	carbono resistor	RT14-1/4W-10R-J	1	R2
3	BDRT415600JX	carbono resistor	RT14-1/4W-560R-J	1	R5
4	BDRT411001JX	carbono resistor	RT14-1/4W-1K-J	3	R6,R7,R10
5	BDRT412201JX	carbono resistor	RT14-1/4W-2.2K-J	1	R4
6	BDRT014702JX	carbono resistor	RT16-1W-47K-J	1	R3
7	BDRJ419311FX	metal oxidation resistor	RJ14-1/4W-9.31K-F	1	R9
8	BDRJ411002FX	metal oxidation resistor	RJ14-1/4W-10K-F	1	R8
9	BDRY211003JX	metal oxidation resistor	RY15-1/2W-100K-J	1	R1
10	BDC1X104ZX	porcelain capacitor	CC1-50V-100N-Z	2	C5,C9
11	BDC1X1473ZX	porcelain capacitor	CC1-50V-47N-Z	2	C4,C7
12	BDC1X1102KX	porcelain capacitor	CC1-50V-1N-K	1	C10
13	BDC81472MX	porcelain capacitor	CC81-1KVDC-4.7N-M	1	C3
	BDC181472ZX	porcelain capacitor	CT81-1KV-4.7N-Z		
14	BDC17XP102M2	safy capacitor	CT7-400VAC-1N-M	1	C8
	BDC17YN102M2	safy capacitor	CT7Y1-250V-1N-M		
15	BDCB23Y104MX	polypropylene capacitor	CBB230-275VAC-100N-M	1	C1
	BDCB23Y104KXG	polypropylene capacitor	CBB230-275V-100N-K		
	BDMEX2Y104MX	polypropylene capacitor	MEX-X2-MKP-275VAC-100N-M		
16	BDCD11P226Z9	electrolytic capacitor	CD11-400V-22U-Z(12.5*21mm)	1	C2
39	BDCD11E106Z1	electrolytic capacitor	CD11-16V-10U-Z	1	C15
17	BDCD11F476Z1	electrolytic capacitor	CD11-25V-47U-Z	1	C6
18	BDCD11E227Z1	electrolytic capacitor	CD11-25V-220U-Z	2	C13,C14
19	BDCD11D108Z1	electrolytic capacitor	CD11-10V-1000U-Z	1	C12
20	BDCDYX108Z3	electrolytic capacitor	CD288H-16V-1000U-Z	1	C11
		(RX series)			
21	BD92551000K1	inductor loop	DR2W8*10	1	L1
		(10uH±10%-10x12mm)			
	BD92551000K5	inductor loop	2WDR8*10		
22	BDDFR107XXXX	diode	FR107-DO-41	3	D6,D7,D8
23	BDD1N5822XXX	diode	1N5822-(DO-201AD)	1	D9
24	BDDIN4007XXX	diode	1N4007-DO-41A	4	D1~D4
25	BDDIN4148XXX	diode	1N4148-DO-35	1	D5
26	BDJVH3XXXXXX	socket	VH-3A2(7.8mm)	1	CON1
	BDJVH3XXXXX2	socket	VH-3A2(7.8mm)		
27	BDJJC32AXXX	socket	2pin 2.54mm stand	1	CN2
28	BDJJC37AXXX	socket	7pin 2.54mm stand	1	CN1
29	BZ9042XXX101	transformer	KBEE25-612030	1	T1
30	BD9254XXX15	transformer	uu9.8(35mH-85mH)	1	LF1
31	BDFRT1206314	insurance pipe	RTH-30-630mA-250VAC-	1	FUSE1
32	BM8104XXXXX3	grounding slice	grounding slice	1	M1
33	AUFSDH321XXX	IC	FSDH321RN-DIP8	1	U1
	AUFSDH321XXXG	IC	FSDH321RN-DIP8		
34	AUPC817BXXXX	IC	PC-817B	1	U2
	AUPC817BXXXG	IC	PC-817B/		
35	AUTL431XXXXT	IC	TL431	1	U3
	AUHTL431XXXX	IC	HTL-431		
36	B7000POW19F3G	PCB	DVD-POWER-19G VER2.1	1	
			110*52*1.6mm		
37	BDJVH3XXXXXX	socket	VH-3A2(7.8mm)	1	CON2
	BDJVH3XXXXX2	socket	VH-3A2(7.8mm)		

DH-300 Service Manual

4.2 MPEG board Parts List

NO.	PART NO.	PART NAME	DESCRIPTION	QTY	LOCATION
1	BDRX02000JTG	resistor	RT0402-1/16W-0R-J	2	R17,R18
2	BDRX021009JTG	resistor	RT0402-1/16W-10R-J	1	R2
3	BDRX025600FTG	resistor	RT0402-1/16W-560R-F	1	R10
4	BDRX025101FTG	resistor	RT0402-1/16W-5.1K-F	2	R20,R28
5	BDRX021002JTG	resistor	RT0402-1/16W-10K-J	19	R3,R4,R5,R6, R7,R8,R11,R14, R15,R25,R29,R32 R33,R34,R36,R37 R38,R57,R64
6	BDRX021002FTG	resistor	RT0402-1/16W-10K-F	1	R31
7	BDRX021202FTG	resistor	RT0402-1/16W-12K-F	1	R30
8	BDRX021502JTG	resistor	RT0402-1/16W-15K-J	2	R24,R19
9	BDRX022002FTG	resistor	RT0402-1/16W-20K-F	1	R27
10	BDRX022202JTG	resistor	RT0402-1/16W-22K-J	1	R1
11	BDRX022702JTG	resistor	RT0402-1/16W-27K-J	2	R23,R22
12	BDRX021003JTG	resistor	RT0402-1/16W-100K-J	4	R12,R13,R16,R66
13	BDRX030000JTG	resistor	RT0603-1/16W-0R-J	7	L1,L6,L7,L8,L11, L12,L14
14	BDRX031008JTG	resistor	RT0603-1/16W-1R-J	1	R9
15	BDRX034708JTG	resistor	RT0603-1/16W-4.7R-J	2	R26,R21
16	BDRX034700JTG	resistor	RT0603-1/16W-470R-J	1	R62
17	BDRX050000JTG	resistor	RT0805-1/10W-0R-J	1	L16
18	BDR1411000JXG	carbono resistor	RT14-1/4W-100R-J	1	R58
19	BDCC021270JTG	capacitor	CC0402-50V-27P-J	2	C14,C15
20	BDCC021101JTG	capacitor	CC0402-50V-100P-J	1	C1
21	BDCC021221JTG	capacitor	CC0402-50V-220P-J	1	C11
22	BDCC021331JTG	capacitor	CC0402-50V-330P-J	2	C21,C22
23	BDCC021152KTG	capacitor	CC0402-50V-1.5N-K	1	C10
24	BDCC021682KTG	capacitor	CC0402-50V-6.8N-K	1	C6
25	BDCC02F153KTG	capacitor	CC0402-25V-15N-K	1	C24
26	BDCC02E104ZTG	capacitor	CC0402-16V-100N-Z	29	CB1,CB2,C2,CB3, CB4,CB5,CB6,CB7 C7,C8,C9,CB10,CB11 CB12,C12,CB13, CB14,CB15,CB16, C16,CB17,C17,CB18, CB18,CB19,CB20,CB21, C23,CB26,CB27,C41
27	BDCC02C105ZTG	capacitor	CC0402-6.3V-1U-Z	2	C42,C13
28	BDCC03C475ZTG	capacitor	CC0603-6.3V-4.7U-Z	5	C3,C9,C18,C19,C20
29	BDCD11E106Z7G	capacitor	CD11-16V-10U-Z(4*7mm)	6	CE5,C8,CE10,C43, C44,CCE1
30	BDCD11D476Z7G	capacitor	CD11-10V-47U-Z(4*7mm)	6	CE1,C5,CE9,CE11, CE12,CE13
31	BDCD11D107Z2G	capacitor	CD11-10V-100U-Z(5*7mm)	5	CE3,CE4,CE6,CE7, CE14
32	BDCD11D227Z2G	capacitor	CD11-10V-220U-Z(6*7mm)	3	CE2,CE8,CE15
33	BDLB5017002TG	inductor	LB0603-500mA-70	8	L3,L4,L9,L10,L17, L18,L19,L20
34	BDLB1516012TG	inductor	LB0603-150mA-600	2	L13,L15
35	BDDIN4148XXXG	diode	1N4148-DO-35	2	D1,D14
36	BDDIN4007XXXG	diode	1N4007-DO-41A	2	D4,D3
37	BDD51950921XG	diode	DZ-5.1V-5mA-0.5W-DO-35	1	D13
	BDD519509211G	diode	DZ-5.1V-5mA-0.5W-(DO-35)		
38	BDDBAT54CXXTG	diode	BAT54C(SOT-23)	1	D2
39	BDQ2SK3018XTG	diode	2SK3018-SOT-23	2	Q2,Q3
40	BDQMMBT3904TG	diode	MMBT3904-NPN-SOT23	1	Q1
41	BDQ8550DXX1TG	audion	S8550D-TO-92-EBC-0.8A	2	Q4,Q5
42	BDQ3CA8550D1G	audion	3CA8550D-TO-92-EBC-1.5A-PNP	2	Q6,Q7

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43	BDQ8550CXXX1G	audion	S8550C-TO-92-EBC-0.8A	2	Q11,Q12
45	BDJPH5AXXXXG	socket	5pin 2.00mm stand	2	J1,J4
46	BDJPH6AXXXXG	socket	6pin 2.00mm stand	1	J2
47	BDJTC33AXXXG	socket	3pin 2.54mm stand	1	CON1
48	BDJXM24050T2G	socket	24P-0.5mm	1	HA1
	BDJXM24050T2G	socket	24P-0.5mm		
49	BD9205XXXX27	socket	AV6-8.4-5.6.2/4.2.9-P	1	P2
50	BDZ127024145G	crystal	27MHz-±30PPM-frequency		
			≤25Ω-20Pf	1	Y3
51	AUAM5888SXXTG	IC		1	U2
	AUCD5888CBXTG	IC	CD5888CB-HSOP28		
52	B7000MPE92X1	PCB	DVD-MPEG-92 VER1.0	1	
			75.0*61.8*1.2mm dual		
			faces board		
53	AUMT1389DELTG	IC	MT1389DE-L-LQFP128	1	U1
55	AUEM6361TS7TG	IC	EM636165TS-7-TSOP150		
			-16M3.3V	1	U4
	AUM12L1616ATG	IC	M12L16161A-7T-TSOP150		
			-16M3.3V		
	AUEM6361TS6G	IC	EM636165TS-6G-TSOP150		
			-16M3.3V		
58	AUW25D40VSX1G	IC	W25D40VSIG-SO8SS-3.3V	1	U5
	AUW25D40VSX2G	IC	W25D40VSIG-SO8SN-3.3V	1	U6
61	BDRX020000JTG	resistor	RT0402-1/16W-0R-J	2	FB2,FB4
62	BDRX026800JTG	resistor	RT0402-1/16W-680R-J	2	R44,R52
63	BDRX021001JTG	resistor	RT0402-1/16W-1K-J	2	R46,R55
64	BDRX025101JTG	resistor	RT0402-1/16W-5.1K-J	2	R42,R51
65	BDRX021002JTG	resistor	RT0402-1/16W-10K-J	2	R41,R50
66	BDRX022702JTG	resistor	RT0402-1/16W-27K-J	2	R49,R39
67	BDRX031001JTG	resistor	RT0603-1/16W-1K-J	2	R71,R72
68	BDCC021220JTG	capacitor	CC0402-50V-22P-J	2	C28,C33
69	BDCC021101JTG	capacitor	CC0402-50V-100P-J	2	C25,C30
70	BDCC02E102JTG	capacitor	CC0402-16V-1N-J	2	C32,C27
71	BDCC02E104ZTG	capacitor	CC0402-16V-100N-Z	2	CB23
72	BDCCD11E106ZTG	capacitor	CD11-16V-10U-Z(4*7mm)	2	C26,C31
73	BDCCD11E476ZTG	capacitor	CD11-16V-47U-Z(4*7mm)	1	CE16
74	BDQMMBT3904TG	audion	MMBT3904-NPN-SOT23	2	Q9,Q10
75	AU4558SSOPXTG	IC	4558-SSOP8	1	U7
81	BDRJ417509FXG	resistor	RJ14-1/4W-75R-F	1	R40
82	BDRX020000JTG	resistor	RT0402-1/16W-0R-J	1	FB1
83	BDRX023758FTG	resistor	RT0402-1/16W-37.5R-F	1	R48
84	BDCC021101JTG	capacitor	CC0402-50V-100P-J	1	C29
85	BDQMMBT3906TG	audion	MMBT3906-PNP-SOT23	1	Q8
11	BDRX021000JTG	resistor	RT0402-1/16W-100R-J	2	R17,R18

4.3 Front Panel Board Parts List

NO.	PART NO.	PART NAME	DESCRIPTION	QTY	LOCATION
1	BDRT412208JX	cabon resister	RT14-1/4W - 2.2R-J	1	R7
2	BDRT814709JX	carbone resistor	RT13-1/8W - 47R-J	1	R10
3	BDRT811500JX	carbone resistor	RT13-1/8W-150R-J	2	R1 R2
4	BDRT814701JX	carbone resistor	RT13-1/8W-4.7K-J	3	R4 R5 R6
5	BDRT813302JX	carbone resistor	RT13-1/8W-33K-J	3	R11 R12 R13
6	BDCC1X1012X	porcelain capacitor	CC1-50V-100P-Z	3	C2~C4
7	BDCC1X104ZX	porcelain capacitor	CC1-50V-100N-Z	2	C6 C7
8	BDCD11E107Z6	electrolytic capacitor	CD11-16V-100U-Z	1	C5
9	BDCD11E227Z5	electrolytic capacitor	CD11-16V-220U-Z	1	C8
10	BDDIN4148XXX	diode	1N4148-DO-35	4	D1 D2 D3 D4
12	AUTM1623XXXT	IC	TM1623-SOP32	1	U2
13	BDYBRM408082	remote receiver	BRM4080A-8pin30.5mm w/iron cover	1	U3
14	BD9340XXXX65	LED display	ZDC-GL 20A04YGB-20 (pin17.5mm)	1	U1
15	BD9251XXXXX2	touch switch	6*6H-5mm	4	S1 S2 S3 S4
16	B70003178X14	PCB board	GK-3178-PANEL-VER2.2	1	including 1PCS GK-3178 LED
			220*24mm		